

## Patent Abstracts of Japan

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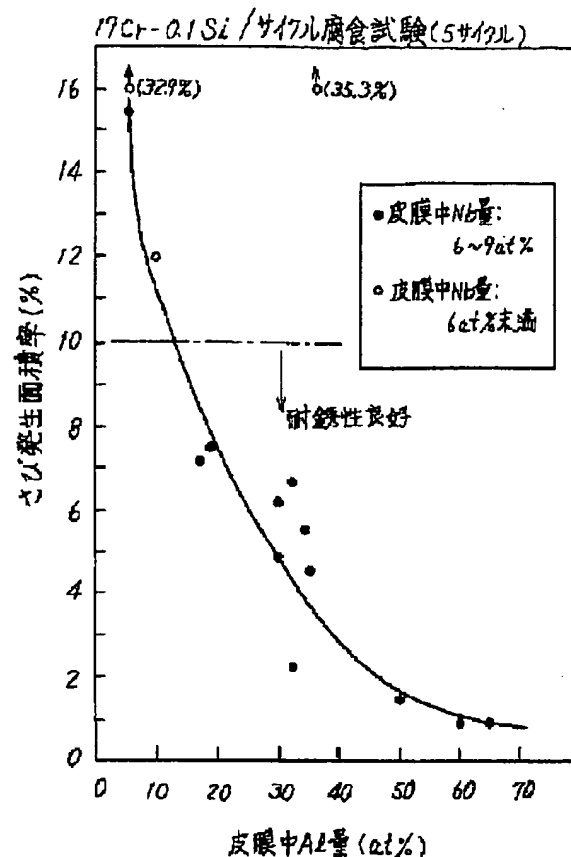
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APPLICANT : NIPPON STEEL CORP;

INVENTOR : NAKADA SHIOO;

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TITLE : FERRITIC STAINLESS STEEL SHEET  
EXCELLENT IN RUST RESISTANCE  
AND WORKABILITY



ABSTRACT : PURPOSE: To produce a ferritic stainless steel sheet excellent in rust resistance and workability.

CONSTITUTION: This sheet is a ferritic stainless steel sheet for exterior use, excellent in rust resistance and workability, which has a composition consisting of, by weight,  $\leq 0.03\%$  C,  $\leq 0.3\%$  Si,  $\leq 1.0\%$  Mn,  $\leq 0.08\%$  P,  $\leq 0.020\%$  S, 10-35% Cr,  $\leq 0.08\%$  N, 0.05-2.0% Nb, 0.008-0.80% Al, and the balance Fe with inevitable impurities and further containing, if necessary, one or more kinds among 0.05-2.0% Ti, 0.05-1.0% Cu, 0.05-5.0% Ni, and 0.05-5.0% Mo and further has, on its surface, an oxide film consisting of, in the proportions of cations alone excluding C, O, and N,  $\geq 15$  atomic % Al,  $\geq 6$  atomic % Nb, and the balance oxides of the elements in the steel, by the average concentrations in the film, and containing Ti only in the case where Ti is added to the steel, and formed by bright annealing. Further, the steel sheet, in which surface roughness is regulated to  $\geq 0.3\mu\text{m}$  by arithmetic mean roughness Ra by rolling by the use of a dull roll, can be produced.

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